

Work Order ID 84955

84955

Page 1

May-29-12 12:45:02 PM

Item ID: D4545-047

Accept

N9000040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Retainer, Inner, LH (Top)

Start Date: 29/05/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/06/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 2/05/29

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

D4545	C
-------	---

100 Pick Kit

100

Packaging

Memo

Packaging



110

110

Small Fab

Memo

Small Fab

1- ASSEMBLE AND BEND TABS AS PER DWG

2- DISASSEMBLE AND DEBURR

3- DIMPLE HOLES AS PER DWG

SCRAP

Scrap

PTO

2/12/07/11

2/12/07/11

*Ae
12.07.24*

W/O: 84955		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: 134545-047 PAR #: _____ Fault Category: Eng NCR: Yes No DQA: [Signature] Date: 12/08/30
 Resolution: _____ Disposition: Scrap QA: N/C Closed: [Signature] Date: 12/5/31

NCR: 12-1761		WORK ORDER NON-CONFORMANCE (NCR) 2433						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
12/8/29	100	WRONG DXF FROM ENG	DAS 12 2-89 12/8/29	SCRAP		DAS 16 2-89 12/8/29	DAS 12 2-89 12/8/29	DAS 16 2-89 12/8/29

NOTE: Date & initial all entries

Work Order ID 84955

84955

Page 2

May-29-12 12:45:02 PM

Item ID: D4545-047

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Retainer, Inner, LH (Top)

Start Date: 29/05/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/06/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.00							
Quality Control									
130	Chemical Conversion Coat per QSI005 4.1	0.00							
130									
HandFinish	Memo	0.00							
Hand Finishing									
140	QC7-Inspect Chemical Conversion Coat	0.00							
140									
QC	Memo	0.00							
Quality Control									

DAS
16
8-62

12/07/20

1

0

12.07.20

12

12/07/20

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 84955

84955

Page 3

May-29-12 12:45:02 PM

Item ID: D4545-047

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Retainer, Inner, LH (Top)

Start Date: 29/05/2012 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 12/06/2012 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

145

0.00

145

Small Fab

Memo

0.00

Small Fab

INSTALL NUT PLATES AND ASSEMBLE AS PER DWG

Handwritten signature and date 12/07/20

147

QC5- Inspect part completeness to step on W/O

0.00

147

QC

Memo

0.00

Quality Control

Handwritten stamp: DAS 16 12/07/20

Handwritten circled 'H'

190

Identify as per dwg & Stock Location: _____

0.00

190

Packaging

Memo

0.00

Packaging

Handwritten date 12/7/20

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 84955

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Page 4

May-29-12 12:45:02 PM

Item ID: D4545-047

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Retainer, Inner, LH (Top)

Start Date: 29/05/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/06/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

200

QC21- Final Inspection - Work Order Release

0.00

200

QC

Memo

0.00

Quality Control

W 1207.20

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

May-29-12 12:45:06 PM

Page 1

Work Order ID: 84955

84955

Parent Item: D4545-047

D4545-047

Parent Item Name: Retainer, Inner, LH (Top)

Start Date: 29/05/2012

Required Date: 12/06/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.01.13 new issue DD verf:JLM
12.02.27 AS PER DWG REV.B DD VERF:EC
as per dwg revC DD verf:EC
IPP REV:B
IPP REV:C 12.05.08

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D4541-7		Manufactured	No			100	Each	5.0000	1	1			
D4541-7													
Bracket													

Location

Loc Qty

Loc Code

FG

-1

B84961

1

78768

3

81264

2

GA

6

D4542-7		Manufactured	No			100	Each	7.0000	1	1			
D4542-7													
Retainer, Inner													

Location

Loc Qty

Loc Code

FG

3

B-81951

1

78774

3

GA

4

81269

4

MS20426AD3-4		Purchased	No			145	Each	3,024.000	16	16			
MS20426AD3-4													
RIVET													

Location

Loc Qty

Loc Code

ST316

3024

104374

406

110398

2618

16

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

May-29-12 12:45:07 PM

Page 2

Work Order ID: 84955

Parent Item: D4545-047

Parent Item Name: Retainer, Inner, LH (Top)

84955

D4545-047

Start Date: 29/05/2012

Required Date: 12/06/2012

Start Qty: 1.00

Required Qty: 1.00

MS21059L3K

Purchased

No

145

Each

206.0000

8

8

MS21059I 3K

Nutplate

**

SP 12/07/20
8

Location

Loc Qty

Loc Code

ST302

206

121114

206

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

ITEM	QTY -041	QTY -042	QTY -043	QTY -044	QTY -045	QTY -046	QTY -047	QTY -048	PART NUMBER	DESCRIPTION
	X								D4545-041	RETAINER, LH INNER (LOWER)
		X							D4545-042	RETAINER, RH INNER (LOWER)
			X						D4545-043	RETAINER, LH INNER (SIDE)
				X					D4545-044	RETAINER, RH INNER (SIDE)
					X				D4545-045	RETAINER, LH INNER (TOP CORNER)
						X			D4545-046	RETAINER, RH INNER (TOP CORNER)
							X		D4545-047	RETAINER, LH INNER (TOP)
								X	D4545-048	RETAINER, RH INNER (TOP)
1	1								D4541-1	BRACKET
2		1							D4541-2	BRACKET
3			1	1					D4541-3	BRACKET
4					1	1			D4541-5F	BRACKET
5							1	1	D4541-7	BRACKET
6	1								D4542-1	RETAINER
7		1							D4542-2	RETAINER
8			1	1					D4542-3	RETAINER
9					1	1			D4542-5	RETAINER
10							1	1	D4542-7	RETAINER
11	40	38	28	28	12	12	16	16	MS20426AD3-4	RIVET
12	19	18	14	14	6	6	8	8	MS21059L3K	NUTPLATE
13	1	1							MS21061L3K	NUTPLATE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 84951 MCT
12/05/

RELEASED
2012-05-07

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: AFTER FORMING AND PRIOR TO ASSEMBLY, CHEMICAL CONVERSION COAT D4541-X & D4542-X PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N PER DART QSI 044 6.1
- 7) WEIGHT: -041/-042 = 0.38 lbs, -043/-044 = 0.27 lbs,
-045/-046 = 0.11 lbs, -047/-048 = 0.15 lbs
- 8) BEND INDIVIDUAL TABS ON D4541-X BRACKETS TO CORRESPONDING "A#" (A1, A2, ETC..) VALUE

C	CHG FINISH (ZN A8-1); D4541-5F WAS -5 (C4-1) REMOVE TRANSFER DRILL NOTES	CP	12.04.20
B	ADD FINISH (ZN A8-1)	CP	12.02.01
A	NEW ISSUE	CP	12.01.09
REV.	DESCRIPTION	BY	DATE
DESIGN	90		
DRAWN	90		
CHECKED	ASS		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.04.20		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. D4545	REV. C SHEET 1 OF 9
TITLE RETAINER, INNER	SCALE NTS
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

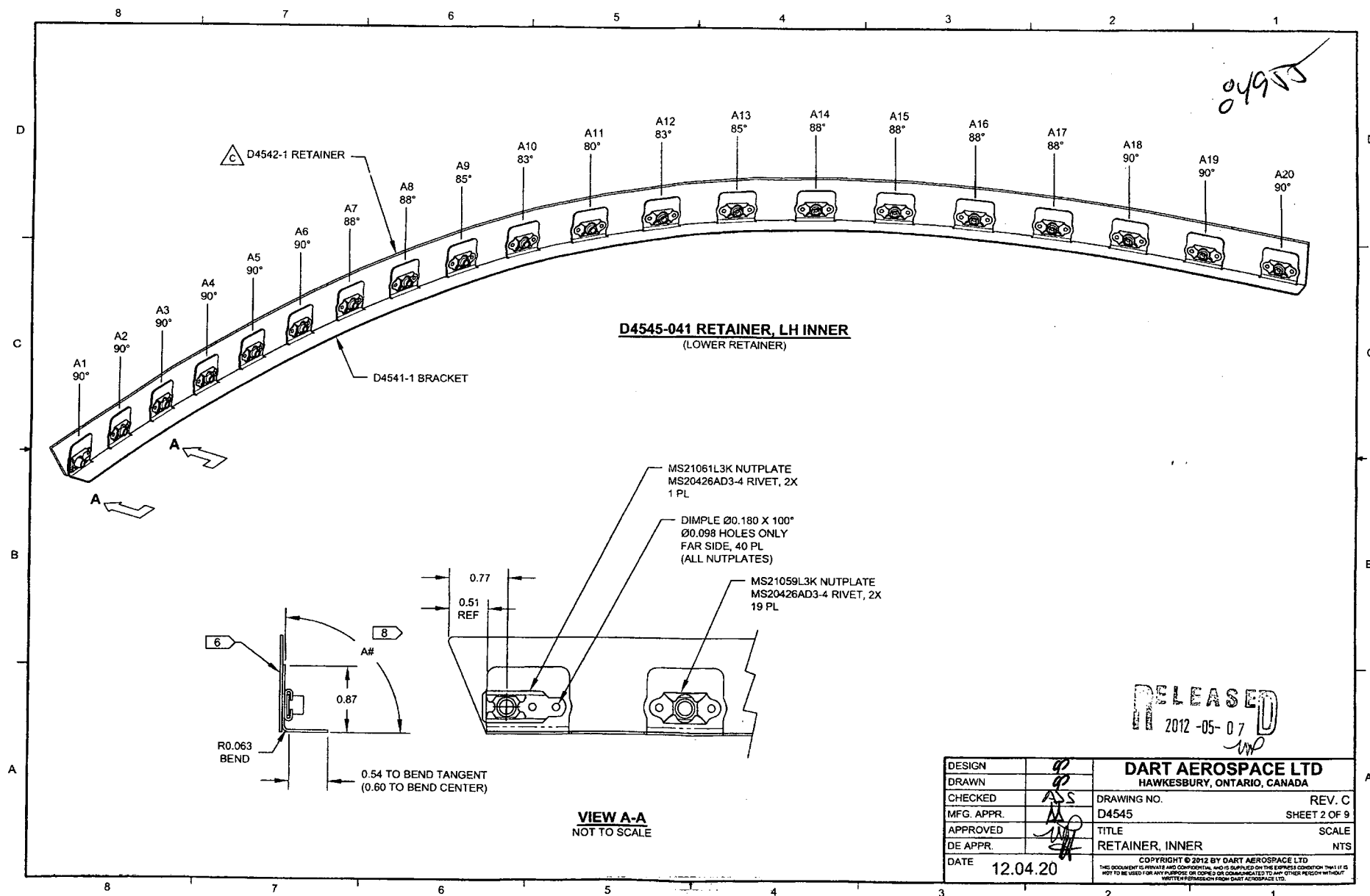
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

04955



RELEASED
2012-05-07

DESIGN	90	DART AEROSPACE LTD	
DRAWN	90	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ASS	DRAWING NO.	REV. C
MFG. APPR.	ASS	D4545	SHEET 2 OF 9
APPROVED	ASS	TITLE	SCALE
DE APPR.	ASS	RETAINER, INNER	NTS
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

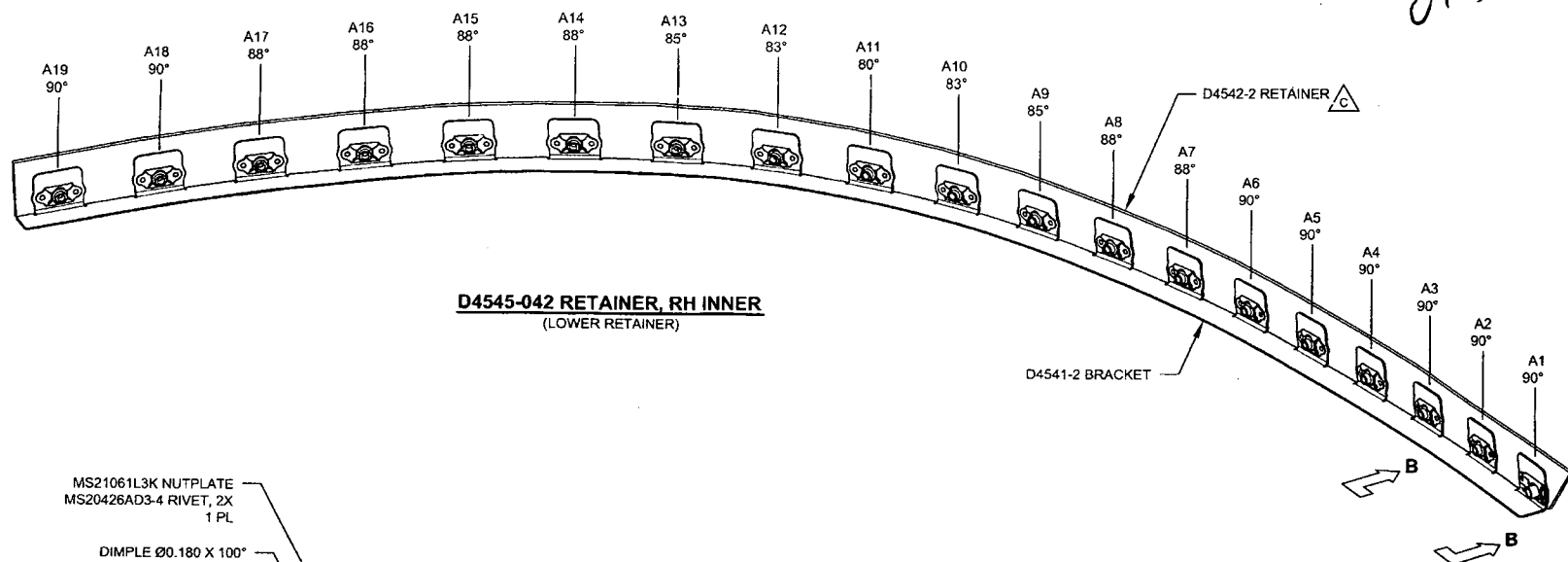
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

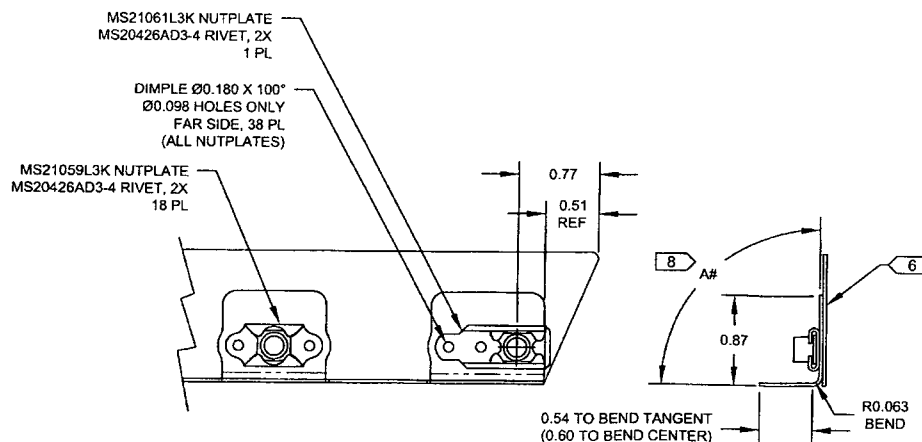
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8455



D4545-042 RETAINER, RH INNER
(LOWER RETAINER)



VIEW B-B
NOT TO SCALE

2012-05-07

DESIGN	90	DART AEROSPACE LTD	
DRAWN	90	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AS	DRAWING NO.	REV. C
MFG. APPR.		D4545	SHEET 3 OF 9
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Dart Aerospace Ltd

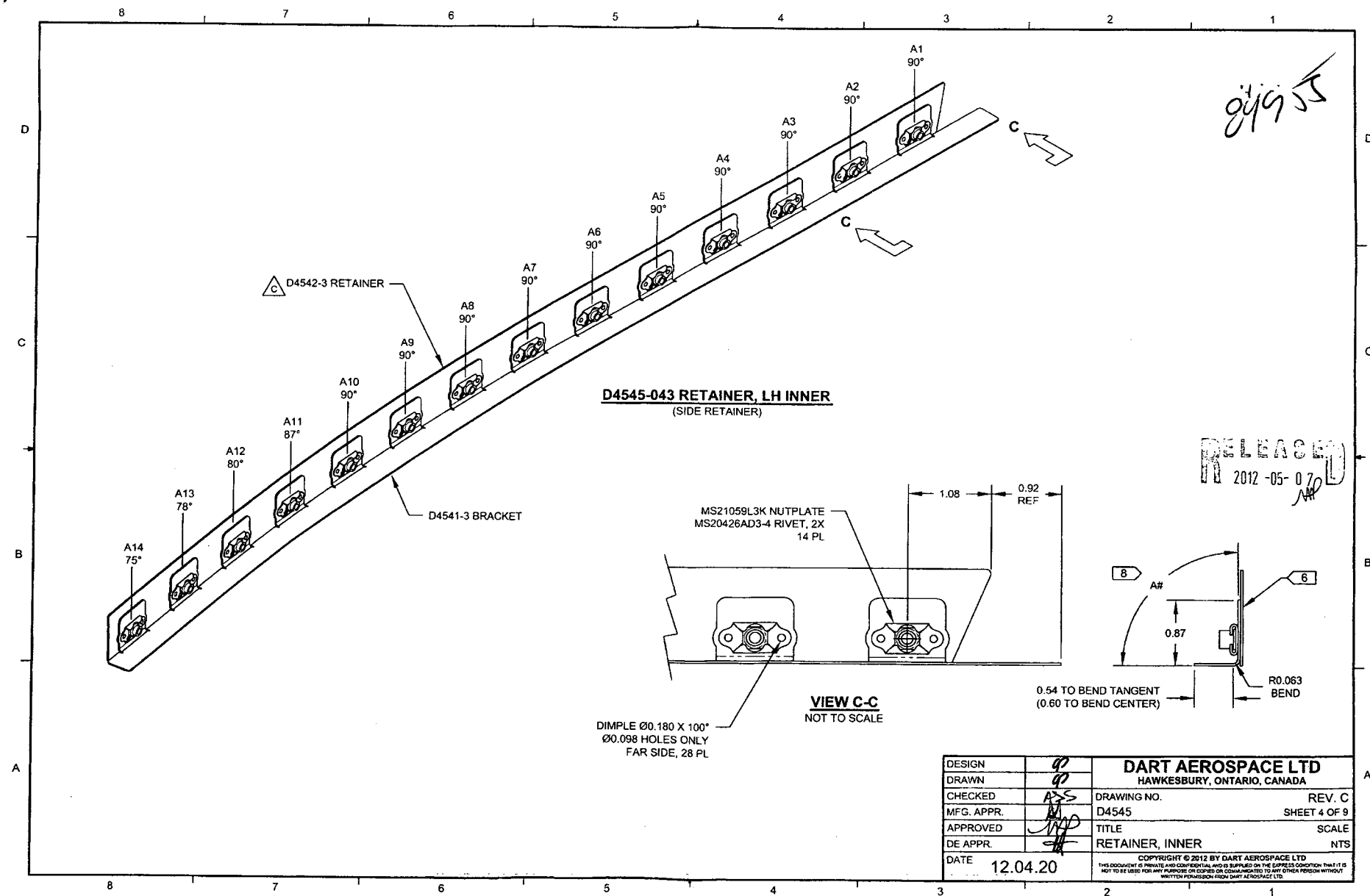
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

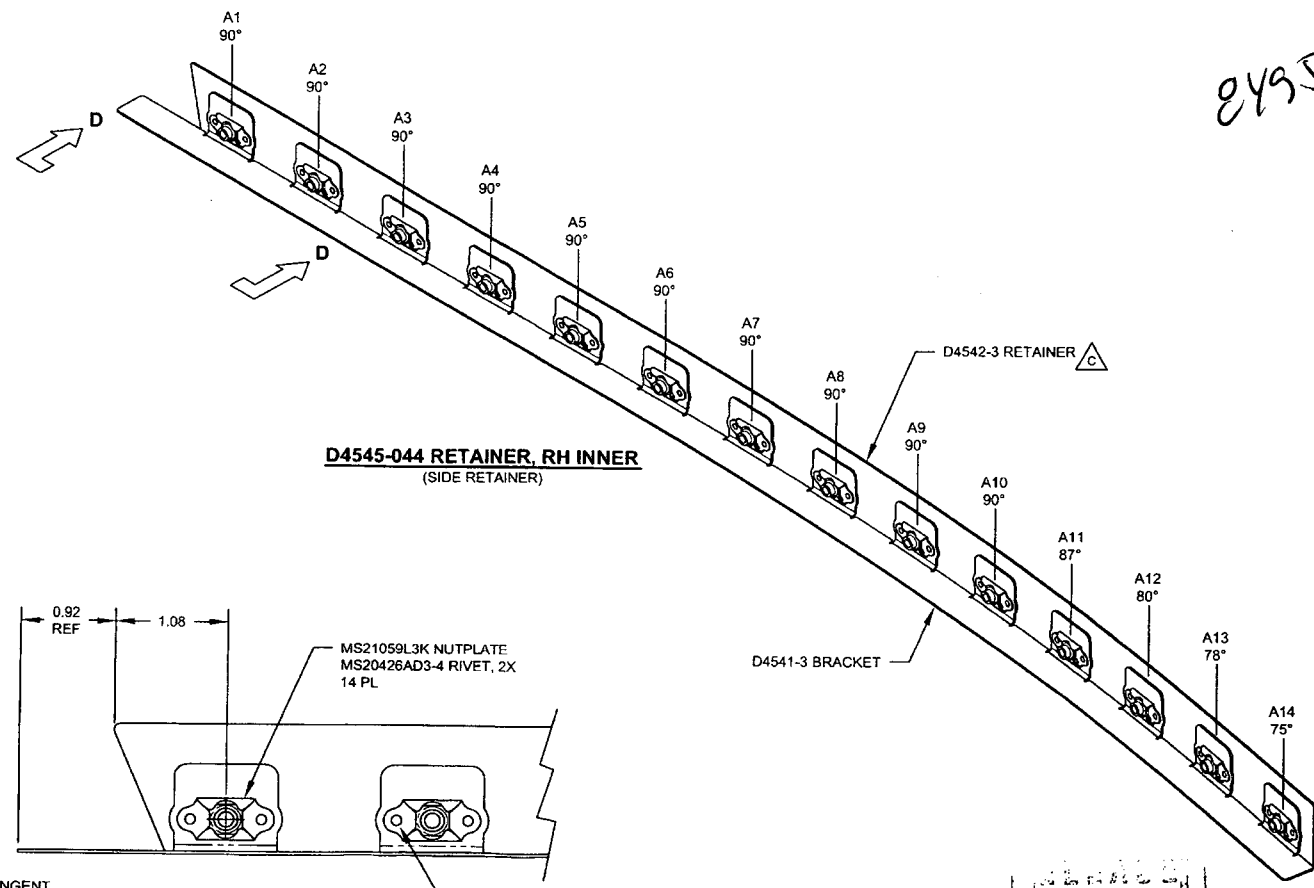
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

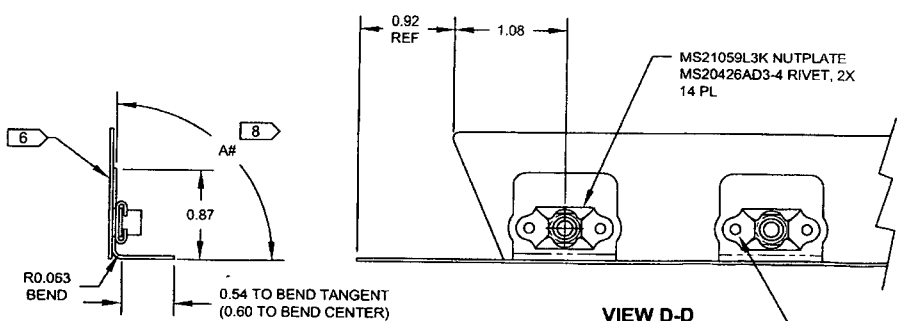
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

24955



D4545-044 RETAINER, RH INNER
(SIDE RETAINER)



VIEW D-D
NOT TO SCALE

DIMPLE Ø0.180 X 100°
Ø0.098 HOLES ONLY
FAR SIDE, 28 PL

2012-05-03

DESIGN	90	DART AEROSPACE LTD	
DRAWN	90	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ASS	DRAWING NO.	REV. C
MFG. APPR.		D4545	SHEET 5 OF 9
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

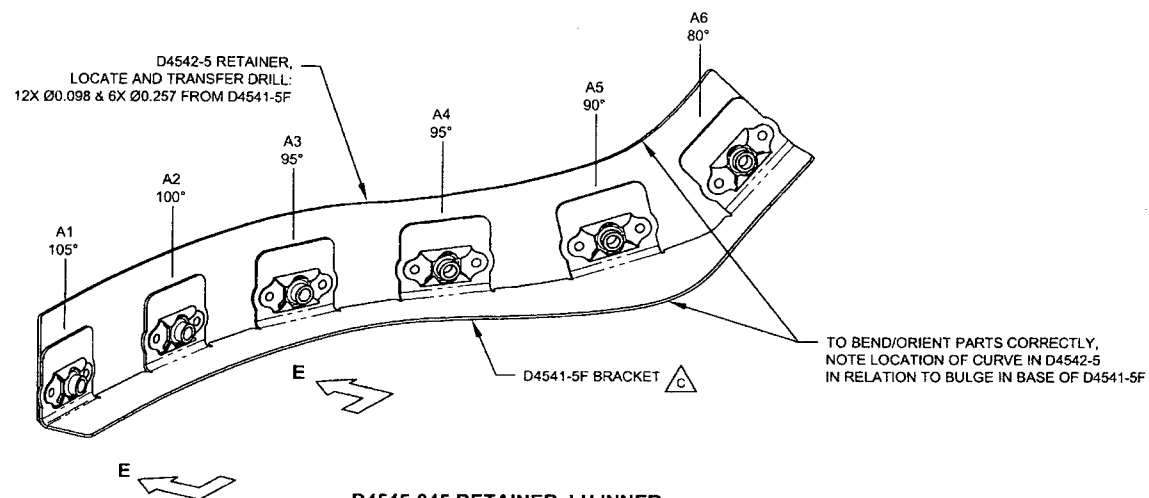
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

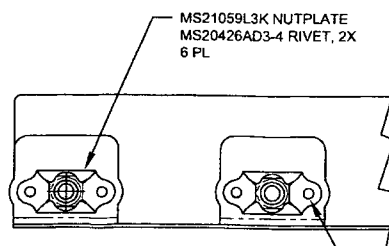
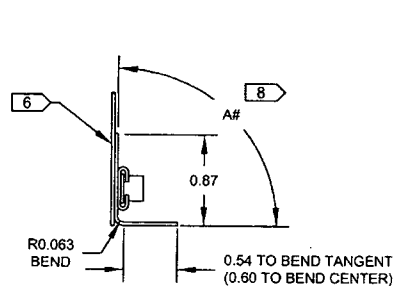
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

049.55



D4545-045 RETAINER, LH INNER
(TOP CORNER RETAINER)



VIEW E-E
NOT TO SCALE

DESIGN	90	DART AEROSPACE LTD	
DRAWN	90	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AS	DRAWING NO.	REV. C
MFG. APPR.		D4545	SHEET 6 OF 9
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2012-05-07

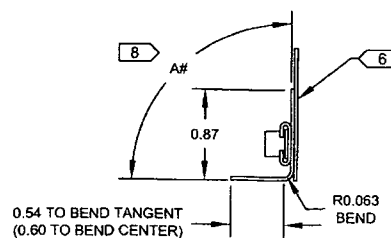
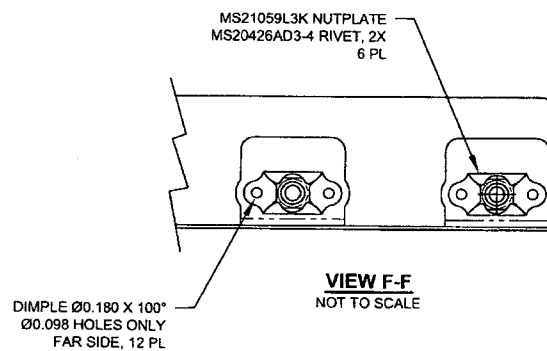
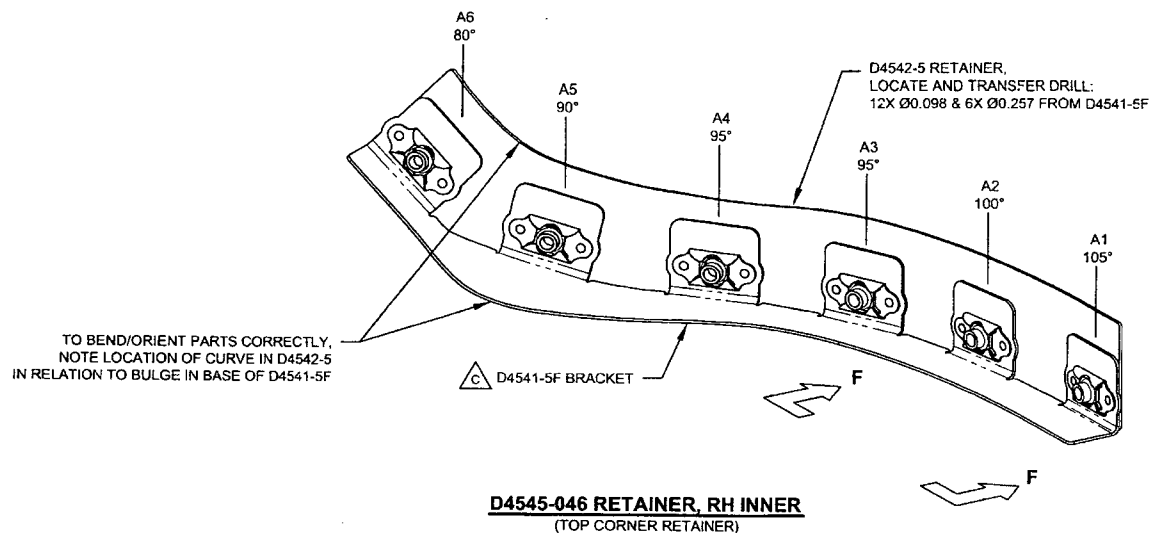
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NOTE: Date & initial all entries



DESIGN	90	DART AEROSPACE LTD	
DRAWN	90	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AS	DRAWING NO.	REV. C
MFG. APPR.	MP	D4545	SHEET 7 OF 9
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RELEASED
2012-05-07
MP

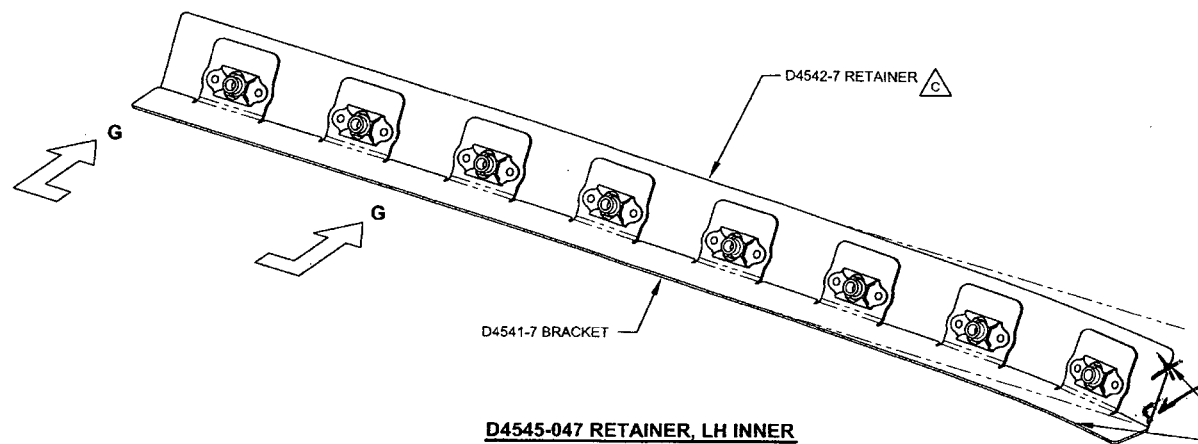
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

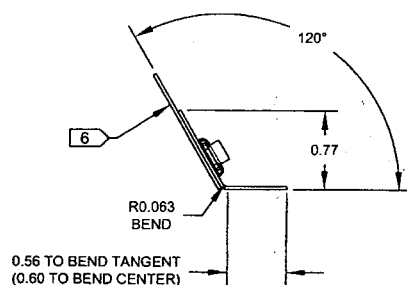
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

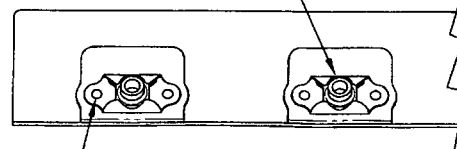
NOTE: Date & initial all entries



D4545-047 RETAINER, LH INNER
(TOP RETAINER)



MS21059L3K NUTPLATE
MS20426AD3-4 RIVET, 2X
8 PL



DIMPLE Ø0.180 X 100°
Ø0.098 HOLES ONLY
FAR SIDE, 16 PL

VIEW G-G
NOT TO SCALE

RELEASE
2012-05-08

DESIGN	90	DART AEROSPACE LTD	
DRAWN	90	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ASS	DRAWING NO.	REV. C
MFG. APPR.	MA	D4545	SHEET 8 OF 9
APPROVED	MA	TITLE	SCALE
DE APPR.	MA	RETAINER, INNER	NTS
DATE	12.04.20	<small>COPYRIGHT © 2012 BY DART AEROSPACE LTD this document is private and confidential and is supplied on the express condition that it is not to be used for any purpose or copied or disseminated to any other person without written permission from DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

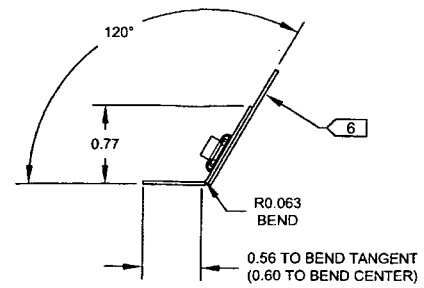
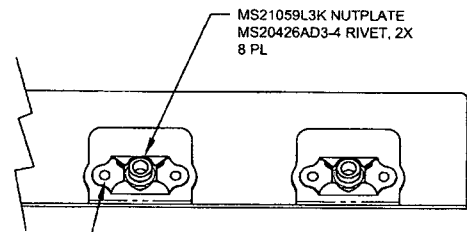
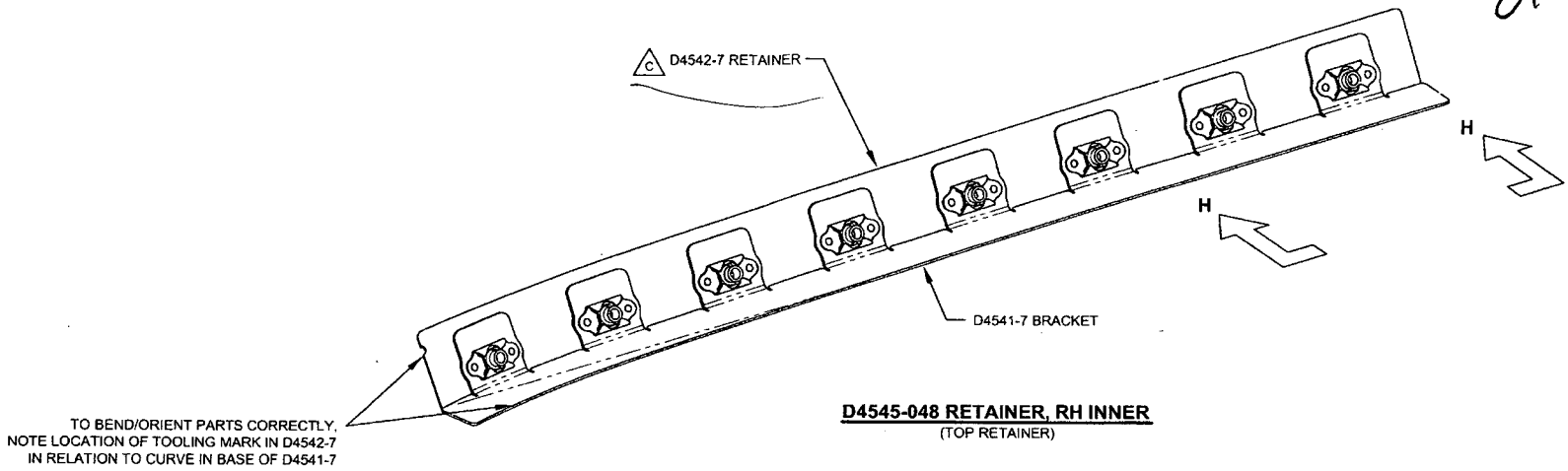
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

84935



2012-05-03

DIMPLE Ø0.180 X 100°
Ø0.098 HOLES ONLY
FAR SIDE, 16 PL

VIEW H-H
NOT TO SCALE

DESIGN	90	DART AEROSPACE LTD	
DRAWN	90	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ASS	DRAWING NO.	REV. C
MFG. APPR.	MD	D4545	SHEET 9 OF 9
APPROVED	JMP	TITLE	SCALE
DE APPR.		RETAINER, INNER	NTS
DATE	12.04.20	<small>COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIES OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION OF DART AEROSPACE LTD</small>	

8 7 6 5 4 3 2 1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries